

November 12, 2019

Mr. John Mannix Assistant Superintendent, Operations Monroe School District 200 East Fremont Monroe, WA 98272

**RE:** PCB Monitoring

Sky Valley Educational Center – Administration Building 351 Short Colombia Street

Monroe, Washington

Dear Mr. Mannix:

PBS Engineering and Environmental, Inc. (PBS) performed Polychlorinated Biphenyl (PCB) surface and air testing in three rooms of the Administration Building at the Sky Valley Educational Center (SVEC) located at 351 Short Columbia Street, Monroe, Washington. The following report discusses background information, methodology, findings and conclusions.

# **BACKGROUND INFORMATION**

The Monroe School District requested PBS to perform PCB air and surface wipe testing at the SVEC Administration Building in three rooms where evidence of failed fluorescent light fixture ballasts was discovered.

#### **METHODOLOGY**

The following is a description of the air and surface sample collection and analysis process. The Monroe School District provided PBS with a floor plan drawing that identified specific rooms to be sampled.

# **PCB Air Samples**

PBS collected indoor air samples at three (3) locations within the Administration Building. These include the Storage/Server, West Office and East Office. See attached sample location diagram. The PCB air samples were collected using the Low Volume Polyurethane Foam Sampling Method. This method uses a vacuum pump with a glass tube that is fitted with a polyurethane foam (PUF) plug and no pre-filter. The PUF tube was pre-assembled and provided by Eurofins Test America in Sacramento, California. The air pump is calibrated before and after testing with a pre-calibrated rotameter. The rotameter is calibrated annually with a primary standard. PBS personnel wore disposable nitrile gloves to protect against cross-contamination between samples. The samples were labeled with unique identification numbers, packaged and delivered with chain-of-custody documentation to Eurofins Test America. The samples were analyzed for PCBs using EPA Method T0-10A. Field Blanks (negative controls) were collected and included with air samples that were sent to the laboratory. A total of two (2) field blanks were collected during this activity. "Blanks" are unused PUF tubes that were handled similarly to all

Mr. John Mannix Sky Valley Education Center PCB Sampling Report November 12, 2019 Page 2 of 3

other samples; however, no air was drawn through these "blank" tubes. Blanks are analyzed with each batch of air samples to help determine if the sample media or the handling process has influenced the results.

The EPA regulatory threshold for airborne PCBs established for this site is 100 nanograms per cubic meter (ng/m³) of air.

# **PCB Surface Wipe Samples**

PBS collected six (6) surface wipe samples in the same three (3) locations as identified above. See attached sample location diagram. The PCB surface sampling was performed using the wipe sampling method in 40 CFR Part 761. This method uses a gauze pad wetted with hexane and placed in a glass jar. The sample media was provided by ALS Laboratories. The hexane wetted gauze pad is wiped over a 100 cm² area using a disposable template as a guide and then placed in a glass jar. PBS personnel wore disposable nitrile gloves to protect against cross-contamination between samples. A total of two (2) field blanks were collected during this activity. The wipe samples were collected to determine the presence of PCB's. The samples were labeled with unique identification numbers, packaged and delivered with chain-of-custody documentation to ALS Laboratories. The samples were analyzed by NIOSH Method 5503 for PCBs.

The EPA regulatory threshold for PCBs in surface wipes is 10 micrograms (µg) per 100 cm<sup>2</sup>.

#### **FINDINGS**

The following is a summary of our laboratory findings for this air and surface sampling activity.

# **Air Samples**

Laboratory results revealed no detectable PCBs on the three (3) air samples collected and the two (2) blanks. See Table 1 below.

**Table 1 – Air Sampling Results** 

<u> </u>				
Sample Number	Location	PCB Results (ng/m³)		
41373.000-01A	Storage/Server Room	Not Detected (ND)		
41373.000-02A	West Office	ND		
41373.000-03A	East Office	ND		
41373.000-04A	Field Blank	ND		
41373.000-05A	Field Blank	ND		

 $ng/m^3 = nanograms/cubic meter$ 

All final analytical results for air samples collected during this monitoring event were found to be below laboratory detection limits as well as EPA guidelines.

Mr. John Mannix Sky Valley Education Center PCB Sampling Report November 12, 2019 Page 3 of 3

# **Surface Wipe Samples**

Laboratory results revealed all six (6) surface wipe samples and the two (2) blanks collected in the Administration Building during this sampling event were below laboratory detection limits and the EPA threshold of  $10 \mu g/100 \text{ cm}^2$ . See Table 2 below.

**Table 2 – Wipe Sampling Results** 

Sample Number	Location	PCB Results (µg/100 cm²)
41373.000-01W	Storage/Server Room Floor	ND
41373.000-02W	Storage/Server Room Shelf	ND
41373.000-03W	West Office Floor	ND
41373.000-04W	West Office Cabinet	ND
41373.000-05W	East Office Floor	ND
41373.000-06W	East Office, East Bookshelf	ND
41373.000-08W	Field Blank	ND
41373.000-09W	Field Blank	ND

 $\mu$ g/100 cm<sup>2</sup> = micrograms/100 square centimeters

# **CONCLUSIONS**

Based on laboratory results of the air and surface wipe samples, no detectable PCBs were found in the locations tested.

Please do not hesitate to contact me if you have any questions regarding this letter report or require additional information.

Sincerely,

PBS Engineering and Environmental, Inc.

Digitally signed by Gregg Middaugh

Date: 2019.11.12

08:08:35 -08'00'

Gregg Middaugh

Senior Project Manager

Industrial Hygiene

Attachments: Sample location Diagrams

Air Sample Laboratory Report

Surface Wipe Sample Laboratory Report



FULL SIZE SHEET FORMAT IS 24X36; IF PRINTED SIZE IS NOT 22X34, THEN THIS SHEET FORMAT HAS BEEN MODIFIED & INDICATED DRAWING SCALE IS NOT ACCURATE.

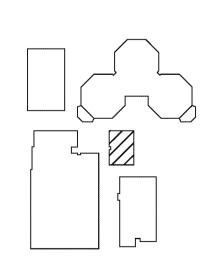
LEGEND

- 01A

PCB AIR SAMPLING LOCATION AND IDENTIFIER

- 01W

PCB SURFACE WIPE SAMPLING LOCATION AND IDENTIFIER



PREPARED FOR: MONROE SCHOOL DISTRICT

KEY PLAN NOT TO SCALE

SHEET 1 OF 1

DRAWN BY

CHECKED:

DATE: NOVEMBER 2019

PROJECT NUMBER: 41373.000 SHEET DRAWING NO:

MONROE SCHOOL DISTRICT

SKY VALLEY EDUCATIONAL CENTER 351 SHORT COLUMBIA STREET, MONROE, WASHINGTON

PCB TESTING PLAN



Report Date: October 31, 2019

Phone: (206) 233-9639

E-mail: gregg.middaugh@pbsusa.com

Workorder: 34-1930908

Client Project ID: Sky Valley Ed. Center

Purchase Order: 41373.000 Project Manager: Stella Hanis

# **Analytical Results**

Gregg Middaugh

214 E. Galer St.

Seattle, WA 98102

Suite 300

PBS Engineering & Environmental

Sample ID: 41373.000-01W Collected: 10/29/2019 Lab ID: 1930908001 Sampling Location: Sky Valley Ed Center Received: 10/31/2019 Instrument: GCE03 Method: NIOSH 5503 Mod. Media: Wipe Sampling Info: Area 100 cm<sup>2</sup> Analyzed: 10/31/2019 (250991) Result Result (ug/100cm<sup>2</sup>) Analyte (ug/sample) RL (ug/sample) Aroclor 1016 < 0.10 < 0.10 0.10 Aroclor 1260 < 0.10 < 0.10 0.10 Aroclor 1221 < 0.20 < 0.20 0.20 Aroclor 1232 < 0.10 < 0.10 0.10 Aroclor 1242 < 0.10 < 0.10 0.10 Aroclor 1248 < 0.10 < 0.10 0.10 Aroclor 1254 < 0.10 < 0.10 0.10 Aroclor 1262 < 0.10 < 0.10 0.10 Aroclor 1268 < 0.10 < 0.10 0.10

Sample ID: <b>41373.000-02W</b>				Collected: 10/29/2019
Lab ID: 1930908002	San	npling Location: Sky	/ Valley Ed Center	Received: 10/31/2019
Method: NIOSH 5503 Mod.	Sampli	Media: Wipe ng Info: <b>Area 100 c</b> n	n²	Instrument: GCE03 Analyzed: 10/31/2019 (250991)
Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	
Aroclor 1016	<0.10	<0.10	0.10	
Aroclor 1260	<0.10	<0.10	0.10	
Aroclor 1221	<0.20	<0.20	0.20	
Aroclor 1232	<0.10	<0.10	0.10	
Aroclor 1242	<0.10	<0.10	0.10	
Aroclor 1248	<0.10	<0.10	0.10	
Aroclor 1254	<0.10	<0.10	0.10	
Aroclor 1262	<0.10	<0.10	0.10	
Aroclor 1268	<0.10	<0.10	0.10	

ADDRESS 960 West LeVoy Drive, Salt Lake City, Utah, 84123 USA | PHONE +1 801 266 7700 | FAX +1 801 268 9992 ALS GROUP USA, CORP. An ALS Limited Company

Control of the Control

www.alsglobal.com

NIGHT SOLUTIONS BEST PARTIES



Workorder: **34-1930908** 

Client Project ID: Sky Valley Ed. Center Purchase Order: 41373.000

Purchase Order: 41373.000 Project Manager: Stella Hanis

# **Analytical Results**

Sample ID: <b>41373.000-03W</b> Lab ID: <b>1930908003</b>	San	npling Location: Sky	/ Valley Ed Center	Collected: 10/29/2019 Received: 10/31/2019
Method: NIOSH 5503 Mod.	Sampli	Media: Wipe ng Info: Area 100 cr	n²	Instrument: GCE03 Analyzed: 10/31/2019 (250991)
Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	
Aroclor 1016	<0.10	<0.10	0.10	
Aroclor 1260	<0.10	<0.10	0.10	
Aroclor 1221	<0.20	<0.20	0.20	
Aroclor 1232	<0.10	<0.10	0.10	
Aroclor 1242	<0.10	<0.10	0.10	
Aroclor 1248	<0.10	<0.10	0.10	
Aroclor 1254	<0.10	<0.10	0.10	
Aroclor 1262	<0.10	<0.10	0.10	
Aroclor 1268	<0.10	<0.10	0.10	

Sample ID: <b>41373.000-04W</b>				Collected: 10/29/2019
Lab ID: 1930908004	San	npling Location: Sky	y Valley Ed Center	Received: 10/31/2019
Method: NIOSH 5503 Mod.	Sampli	Media: Wipe ng Info: <b>Area 100 cr</b>	n²	Instrument: GCE03 Analyzed: 10/31/2019 (250991)
Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	
Aroclor 1016	<0.10	<0.10	0.10	
Aroclor 1260	<0.10	<0.10	0.10	
Aroclor 1221	<0.20	<0.20	0.20	
Aroclor 1232	<0.10	<0.10	0.10	
Aroclor 1242	<0.10	<0.10	0.10	
Aroclor 1248	<0.10	<0.10	0.10	
Aroclor 1254	<0.10	<0.10	0.10	
Aroclor 1262	<0.10	<0.10	0.10	
Aroclor 1268	<0.10	<0.10	0.10	

Sample ID: <b>41373.000-05W</b>				Collected: 10/29/2019
Lab ID: 1930908005	San	npling Location: Sky	Received: 10/31/2019	
Method: NIOSH 5503 Mod.	Sampli	Media: Wipe ng Info: Area 100 cr	n²	Instrument: GCE03 Analyzed: 10/31/2019 (250991)
Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	
Aroclor 1016	<0.10	<0.10	0.10	
Aroclor 1260	<0.10	<0.10	0.10	
Aroclor 1221	<0.20	<0.20	0.20	

# **Results Continued on Next Page**



Workorder: 34-1930908

Client Project ID: Sky Valley Ed. Center Purchase Order: 41373.000

Purchase Order: 41373.000 Project Manager: Stella Hanis

# **Analytical Results**

Sample ID: <b>41373.000-05W</b> Lab ID: <b>1930908005</b>	San	npling Location: Sky	Valley Ed Center	Collected: 10/29/2019 Received: 10/31/2019
Method: NIOSH 5503 Mod.	Media: Wipe Sampling Info: Area 100 cm²		Instrument: GCE03 Analyzed: 10/31/2019 (250991)	
Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	
Aroclor 1232	<0.10	<0.10	0.10	
Aroclor 1242	<0.10	<0.10	0.10	
Aroclor 1248	<0.10	<0.10	0.10	
Aroclor 1254	<0.10	<0.10	0.10	
Aroclor 1262	<0.10	<0.10	0.10	
Aroclor 1268	<0.10	<0.10	0.10	

Sample ID: <b>41373.000-06W</b> Lab ID: 1930908006	San	npling Location: Sky	√ Vallev Ed Center	Collected: 10/29/2019 Received: 10/31/2019
Method: NIOSH 5503 Mod.		Media: Wipe ng Info: <b>Area 100 cr</b>	-	Instrument: GCE03 Analyzed: 10/31/2019 (250991)
Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	
Aroclor 1016	<0.10	<0.10	0.10	
Aroclor 1260	<0.10	<0.10	0.10	
Aroclor 1221	<0.20	<0.20	0.20	
Aroclor 1232	<0.10	<0.10	0.10	
Aroclor 1242	<0.10	<0.10	0.10	
Aroclor 1248	<0.10	<0.10	0.10	
Aroclor 1254	<0.10	<0.10	0.10	
Aroclor 1262	<0.10	<0.10	0.10	
Aroclor 1268	<0.10	<0.10	0.10	

		Collected: 10/29/2019
ation: Sky Val	ley Ed Center	Received: 10/31/2019
		Instrument: GCE03 Analyzed: 10/31/2019 (250991)
Result 100cm²) RL	. (ug/sample)	
<0.10	0.10	
<0.10	0.10	
<0.20	0.20	
<0.10	0.10	
<0.10	0.10	
<0.10	0.10	
	/ipe rea 100 cm²  Result 100cm²) RI <0.10 <0.10 <0.20 <0.10 <0.10	Result 100 cm² RL (ug/sample) < 0.10

# **Results Continued on Next Page**



Workorder: 34-1930908

Client Project ID: Sky Valley Ed. Center

Purchase Order: 41373.000 Project Manager: Stella Hanis

# **Analytical Results**

Sample ID: 41373.000-07W Collected: 10/29/2019 Lab ID: 1930908007 Sampling Location: Sky Valley Ed Center Received: 10/31/2019 Method: NIOSH 5503 Mod. Instrument: GCE03 Media: Wipe Sampling Info: Area 100 cm² Analyzed: 10/31/2019 (250991) Result Result Analyte (ug/100cm²) RL (ug/sample) (ug/sample) Aroclor 1254 < 0.10 < 0.10 0.10 Aroclor 1262 < 0.10 < 0.10 0.10 Aroclor 1268 < 0.10 < 0.10 0.10

Sample ID: 41373.000-08W B	lank #1			Collected: 10/29/2019
Lab ID: 1930908008	San	npling Location: Sky	y Valley Ed Center	Received: 10/31/2019
Method: NIOSH 5503 Mod.	03 Mod. Media: Wipe Sampling Info: Area Not Applicable		pplicable	Instrument: GCE03 Analyzed: 10/31/2019 (250991)
Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	
Aroclor 1016	<0.10	NA	0.10	
Aroclor 1260	<0.10	NA	0.10	
Aroclor 1221	<0.20	NA	0.20	
Aroclor 1232	<0.10	NA	0.10	
Aroclor 1242	<0.10	NA	0.10	
Aroclor 1248	<0.10	NA	0.10	
Aroclor 1254	<0.10	NA	0.10	
Aroclor 1262	<0.10	NA	0.10	
Aroclor 1268	<0.10	NA	0.10	

Sample ID: 41373.000-09W Blank #2			Collected: 10/29/2019	
Lab ID: 1930908009	San	npling Location: Sky	/ Valley Ed Center	Received: 10/31/2019
Method: NIOSH 5503 Mod.	Media: Wipe Sampling Info: Area Not Applicable		Instrument: GCE03 Analyzed: 10/31/2019 (250991)	
Analyte	Result (ug/sample)	Result (ug/100cm²)	RL (ug/sample)	
Aroclor 1016	<0.10	NA	0.10	
Aroclor 1260	<0.10	NA	0.10	
Aroclor 1221	<0.20	NA	0.20	
Aroclor 1232	<0.10	NA	0.10	
Aroclor 1242	<0.10	NA	0.10	
Aroclor 1248	<0.10	NA	0.10	
Aroclor 1254	<0.10	NA	0.10	
Aroclor 1262	<0.10	NA	0.10	
Aroclor 1268	<0.10	NA	0.10	



Workorder: 34-1930908

Client Project ID: Sky Valley Ed. Center

Purchase Order: 41373.000 Project Manager: Stella Hanis

#### Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method	Analyst	Peer Review
NIOSH 5503 Mod.	/S/ Mila V. Potekhin 10/31/2019 16:14	/S/ Matthew Roberts 10/31/2019 16:54

# **Laboratory Contact Information**

ALS Environmental Phone: (801) 266-7700

960 W Levoy Drive Email: alslt.lab@ALSGlobal.com

Salt Lake City, Utah 84123 Web: www.alsslc.com

#### **General Lab Comments**

The results provided in this report relate only to the items tested.

Samples were received in acceptable condition unless otherwise noted.

Samples have not been blank corrected unless otherwise noted.

This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	PJLA (DoD ELAP)	L17-506	http://www.pjlabs.com
	PJLA (ISO 17025)	L17-507-R1	http://www.pjlabs.com
	Utah (TNI)	UT00953	http://lams.nelac-institute.org/search
	lowa (TNI)	IA# 376	http://www.shl.uiowa.edu/labcert/idnr/
	Kansas	E-10416	http://www.kdheks.gov/envlab/disclaimer.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP)	101574	http://www.aihaaccreditedlabs.org
	DOECAP-AP	L18-606	http://www.pjlabs.com
	Washington	C596	https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Lab oratory-Accreditation
Dietary Supplements	PJLA (ISO 17025)	L17-507-R1	http://www.pjlabs.com

# **Definitions**

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.

LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.

ND = Not Detected, Testing result not detected above the LOD or LOQ.

NA = Not Applicable.

- < Means this testing result is less than the numerical value.
- ( ) This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.

<sup>\*\*</sup> No result could be reported, see sample comments for details.



# **Environment Testing** TestAmerica

# ANALYTICAL REPORT

Eurofins TestAmerica, Sacramento 880 Riverside Parkway West Sacramento, CA 95605 Tel: (916)373-5600

Laboratory Job ID: 320-55843-1

Client Project/Site: Sky Valley Ballast Survey

For:

PBS Engineering and Environmental 2517 Eastlake Ave Suite 100 Seattle, Washington 98102

Attn: Gregg Middaugh

Authorized for release by:

Lee Ann Heathcote, Project Manager II (916)373-5600

leeann.heathcote@testamericainc.com

11/6/2019 9:53:31 AM

Review your project results through Total Access Have a Question?

LINKS



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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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# **Definitions/Glossary**

Client: PBS Engineering and Environmental

Toxicity Equivalent Quotient (Dioxin)

Job ID: 320-55843-1 Project/Site: Sky Valley Ballast Survey

# Glossary

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

# **Case Narrative**

Client: PBS Engineering and Environmental Project/Site: Sky Valley Ballast Survey

Job ID: 320-55843-1

Job ID: 320-55843-1

Laboratory: Eurofins TestAmerica, Sacramento

Narrative

Job Narrative 320-55843-1

# Receipt

The samples were received on 10/31/2019 7:26 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 16.8° C.

#### **Receipt Exceptions**

The following samples were received outside the required temperature criteria: -01A (320-55843-1), -02A (320-55843-2), -03A (320-55843-3), -04A BLANK #1 (320-55843-4) and -05A BLANK #2 (320-55843-5). The cooler had one gel pack on the bottom of the cooler. There was bubble-wrap surrounding the samples as well as bubble-wrap in between the samples and the gel pack. No temperature blank was provided.

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Analysis was not marked for "Blank" samples (320-55843-4 and 320-55843-5). Client was contacted and confirmed analysis of these samples.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **Organic Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# **Detection Summary**

Client: PBS Engineering and Environmental Project/Site: Sky Valley Ballast Survey	Job ID: 320-55843-1
Client Sample ID: -01A	Lab Sample ID: 320-55843-1
No Detections.	
Client Sample ID: -02A	Lab Sample ID: 320-55843-2
No Detections.	
Client Sample ID: -03A	Lab Sample ID: 320-55843-3
No Detections.	
Client Sample ID: -04A BLANK #1	Lab Sample ID: 320-55843-4
No Detections.	
Client Sample ID: -05A BLANK #2	Lab Sample ID: 320-55843-5
No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

Page 5 of 16 11/6/2019

Client: PBS Engineering and Environmental

Project/Site: Sky Valley Ballast Survey

Lab Sample ID: 320-55843-1

Matrix: Air

Job ID: 320-55843-1

Date Collected: 10/29/19 23:02 Date Received: 10/31/19 07:26 Sample Container: PUF

Client Sample ID: -01A

Method: TO-10A - PCBs i	thod: TO-10A - PCBs in Ambient Air									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
PCB-1016	ND		370		ng/m3 PUF	_	10/31/19 10:07	11/04/19 15:58	1	
PCB-1221	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 15:58	1	
PCB-1232	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 15:58	1	
PCB-1242	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 15:58	1	
PCB-1248	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 15:58	1	
PCB-1254	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 15:58	1	
PCB-1260	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 15:58	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
Tetrachloro-m-xylene	94		60 - 120				10/31/19 10:07	11/04/19 15:58		
DCB Decachlorobiphenyl	110		60 - 120				10/31/19 10:07	11/04/19 15:58	1	

Client Sample ID: -02A Lab Sample ID: 320-55843-2

Matrix: Air

Date Collected: 10/29/19 23:04 Date Received: 10/31/19 07:26 Sample Container: PUF

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 16:18	1
PCB-1221	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 16:18	1
PCB-1232	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 16:18	1
PCB-1242	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 16:18	1
PCB-1248	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 16:18	1
PCB-1254	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 16:18	1
PCB-1260	ND		370		ng/m3 PUF		10/31/19 10:07	11/04/19 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		60 - 120				10/31/19 10:07	11/04/19 16:18	1
DCB Decachlorobiphenyl	96		60 - 120				10/31/19 10:07	11/04/19 16:18	1

Lab Sample ID: 320-55843-3 Client Sample ID: -03A

Date Collected: 10/29/19 23:05 Matrix: Air Date Received: 10/31/19 07:26

Sample Container: PUF

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND	370	ng/m3 PUF		10/31/19 10:07	11/04/19 16:39	1
PCB-1221	ND	370	ng/m3 PUF		10/31/19 10:07	11/04/19 16:39	1
PCB-1232	ND	370	ng/m3 PUF		10/31/19 10:07	11/04/19 16:39	1
PCB-1242	ND	370	ng/m3 PUF		10/31/19 10:07	11/04/19 16:39	1
PCB-1248	ND	370	ng/m3 PUF		10/31/19 10:07	11/04/19 16:39	1
PCB-1254	ND	370	ng/m3 PUF		10/31/19 10:07	11/04/19 16:39	1
PCB-1260	ND	370	ng/m3 PUF		10/31/19 10:07	11/04/19 16:39	1
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93	60 - 120			10/31/19 10:07	11/04/19 16:39	1
DCB Decachlorobiphenyl	105	60 - 120			10/31/19 10:07	11/04/19 16:39	1

Eurofins TestAmerica, Sacramento

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Client: PBS Engineering and Environmental Project/Site: Sky Valley Ballast Survey

Job ID: 320-55843-1

Client Sample ID: -04A BLANK #1

Date Collected: 10/29/19 00:00

Date Received: 10/31/19 07:26 Sample Container: PUF

Lab Sample ID: 320-55843-4

Matrix: Air

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Method: TO-10A - PCBs in Ambient Air Analyte Result Qualifier RL MDL Unit Prepared **Analyzed** Dil Fac 750 PCB-1016  $\overline{\mathsf{ND}}$ ng/m3 PUF 10/31/19 10:21 11/04/19 16:59 PCB-1221 ND 750 ng/m3 PUF 10/31/19 10:21 11/04/19 16:59 750 PCB-1232 ND ng/m3 PUF 10/31/19 10:21 11/04/19 16:59 PCB-1242 ND 750 ng/m3 PUF 10/31/19 10:21 11/04/19 16:59 PCB-1248 ND 750 ng/m3 PUF 10/31/19 10:21 11/04/19 16:59 PCB-1254 ND 750 ng/m3 PUF 10/31/19 10:21 11/04/19 16:59 ND 750 PCB-1260 ng/m3 PUF 10/31/19 10:21 11/04/19 16:59 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 10/31/19 10:21 11/04/19 16:59 Tetrachloro-m-xylene 86 60 - 120 60 - 120 10/31/19 10:21 11/04/19 16:59 DCB Decachlorobiphenyl 98

Client Sample ID: -05A BLANK #2

Date Collected: 10/29/19 00:00 Date Received: 10/31/19 07:26

Sample Container: PUF

Lab Sample ID: 320-55843-5

Matrix: Air

Method: TO-10A - PCBs in Ambient Air Analyte Result Qualifier RL MDL Unit Prepared Dil Fac Analyzed PCB-1016 ND 750 10/31/19 10:21 11/04/19 17:20 ng/m3 PUF PCB-1221 ND 750 ng/m3 PUF 10/31/19 10:21 11/04/19 17:20 PCB-1232 ND 750 ng/m3 PUF 10/31/19 10:21 11/04/19 17:20 PCB-1242 ND 750 ng/m3 PUF 10/31/19 10:21 11/04/19 17:20 PCB-1248 ND 750 ng/m3 PUF 10/31/19 10:21 11/04/19 17:20 PCB-1254 ND 750 ng/m3 PUF 10/31/19 10:21 11/04/19 17:20 PCB-1260 ND 750 ng/m3 PUF 10/31/19 10:21 11/04/19 17:20

%Recovery Qualifier Prepared Dil Fac Surrogate Limits Analyzed 10/31/19 10:21 11/04/19 17:20 Tetrachloro-m-xylene 89 60 - 120 100 60 - 120 10/31/19 10:21 11/04/19 17:20 DCB Decachlorobiphenyl

# **Surrogate Summary**

Client: PBS Engineering and Environmental Project/Site: Sky Valley Ballast Survey

Job ID: 320-55843-1

Method: TO-10A - PCBs in Ambient Air

Matrix: Air Prep Type: Total/NA

			Percent	t Surrogate Recovery (Acceptance Lin
		TCX1	DCBP1	
Lab Sample ID	Client Sample ID	(60-120)	(60-120)	
320-55843-1	-01A	94	110	
320-55843-2	-02A	89	96	
320-55843-3	-03A	93	105	
320-55843-4	-04A BLANK #1	86	98	
320-55843-5	-05A BLANK #2	89	100	
LCS 320-334981/2-B	Lab Control Sample	91	89	
LCSD 320-334981/3-B	Lab Control Sample Dup	92	100	
MB 320-334981/1-B	Method Blank	86	102	
Surrogate Legend				
TCX = Tetrachloro-m-x	ylene			
DCBP = DCB Decachlo	probiphenyl			

Eurofins TestAmerica, Sacramento

Job ID: 320-55843-1

Client: PBS Engineering and Environmental Project/Site: Sky Valley Ballast Survey

# Method: TO-10A - PCBs in Ambient Air

Lab Sample ID: MB 320-334981/1-B

Matrix: Air

Analysis Batch: 335864

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 334982

MB MB Analyte Result Qualifier RL MDL Unit Prepared Dil Fac **Analyzed** ng/m3 PUF PCB-1016 ND 750 10/31/19 10:07 11/04/19 14:56 PCB-1221 750 ND ng/m3 PUF 10/31/19 10:07 11/04/19 14:56 PCB-1232 ND 750 ng/m3 PUF 10/31/19 10:07 11/04/19 14:56 PCB-1242 ND 750 ng/m3 PUF 10/31/19 10:07 11/04/19 14:56 PCB-1248 ND 750 ng/m3 PUF 10/31/19 10:07 11/04/19 14:56 PCB-1254 ND 750 10/31/19 10:07 11/04/19 14:56 ng/m3 PUF 1 750 PCB-1260 ND 10/31/19 10:07 11/04/19 14:56 ng/m3 PUF

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		60 - 120	10/31/19 10:07	11/04/19 14:56	1
DCB Decachlorobiphenyl	102		60 - 120	10/31/19 10:07	11/04/19 14:56	1

Lab Sample ID: LCS 320-334981/2-B

Matrix: Air

Analyte

PCB-1016

PCB-1260

Analysis Batch: 335864

<b>004</b>		
		Spike
		Added

2000

2000

Spike

Added

2000

2000

60 - 120

1880

2130

LCS LCS Result Qualifier

LCSD LCSD

1860

2060

Result Qualifier

Unit

%Rec 94 ng/m3 PUF ng/m3 PUF 106

Client Sample ID: Lab Control Sample

Limits 65 - 125

65 - 125

%Rec.

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene	91		60 - 120
DCB Decachlorobiphenyl	89		60 - 120

Lab Sample ID: LCSD 320-334981/3-B

Matrix: Air

Analyte

PCB-1016

PCB-1260

Surrogate

Tetrachloro-m-xylene

DCB Decachlorobiphenyl

Analysis Batch: 335864

LCSD LCSD %Recovery Qualifier Limits 60 - 120 92

100

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 334982

Prep Batch: 334982

**RPD** %Rec.

Limits **RPD** Limit 65 - 125 30

65 - 125 3 30

ng/m3 PUF ng/m3 PUF

Unit

93 103

%Rec

Eurofins TestAmerica, Sacramento

# **QC Association Summary**

Client: PBS Engineering and Environmental Project/Site: Sky Valley Ballast Survey

Job ID: 320-55843-1

# Air - GC Semi VOA

# Pre Prep Batch: 334981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-55843-1	-01A	Total/NA	Air	PUF to Air	
320-55843-2	-02A	Total/NA	Air	PUF to Air	
320-55843-3	-03A	Total/NA	Air	PUF to Air	
320-55843-4	-04A BLANK #1	Total/NA	Air	PUF to Air	
320-55843-5	-05A BLANK #2	Total/NA	Air	PUF to Air	
MB 320-334981/1-B	Method Blank	Total/NA	Air	PUF to Air	
LCS 320-334981/2-B	Lab Control Sample	Total/NA	Air	PUF to Air	
LCSD 320-334981/3-B	Lab Control Sample Dup	Total/NA	Air	PUF to Air	

# Prep Batch: 334982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-55843-1	-01A	Total/NA	Air	TO-10	334981
320-55843-2	-02A	Total/NA	Air	TO-10	334981
320-55843-3	-03A	Total/NA	Air	TO-10	334981
320-55843-4	-04A BLANK #1	Total/NA	Air	TO-10	334981
320-55843-5	-05A BLANK #2	Total/NA	Air	TO-10	334981
MB 320-334981/1-B	Method Blank	Total/NA	Air	TO-10	334981
LCS 320-334981/2-B	Lab Control Sample	Total/NA	Air	TO-10	334981
LCSD 320-334981/3-B	Lab Control Sample Dup	Total/NA	Air	TO-10	334981

# Analysis Batch: 335864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-55843-1	-01A	Total/NA	Air	TO-10A	334982
320-55843-2	-02A	Total/NA	Air	TO-10A	334982
320-55843-3	-03A	Total/NA	Air	TO-10A	334982
320-55843-4	-04A BLANK #1	Total/NA	Air	TO-10A	334982
320-55843-5	-05A BLANK #2	Total/NA	Air	TO-10A	334982
MB 320-334981/1-B	Method Blank	Total/NA	Air	TO-10A	334982
LCS 320-334981/2-B	Lab Control Sample	Total/NA	Air	TO-10A	334982
LCSD 320-334981/3-B	Lab Control Sample Dup	Total/NA	Air	TO-10A	334982

Client: PBS Engineering and Environmental

Project/Site: Sky Valley Ballast Survey

Client Sample ID: -01A Lab Sample ID: 320-55843-1 Date Collected: 10/29/19 23:02

Matrix: Air

Job ID: 320-55843-1

Date Received: 10/31/19 07:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	PUF to Air					334981	10/31/19 10:06	CCL	TAL SAC
Total/NA	Prep	TO-10			2010 L	10 mL	334982	10/31/19 10:07	CCL	TAL SAC
Total/NA	Analysis	TO-10A		1			335864	11/04/19 15:58	AP1	TAL SAC

Client Sample ID: -02A Lab Sample ID: 320-55843-2

Date Collected: 10/29/19 23:04 Matrix: Air

Date Received: 10/31/19 07:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	PUF to Air					334981	10/31/19 10:06	CCL	TAL SAC
Total/NA	Prep	TO-10			2010 L	10 mL	334982	10/31/19 10:07	CCL	TAL SAC
Total/NA	Analysis	TO-10A		1			335864	11/04/19 16:18	AP1	TAL SAC

Client Sample ID: -03A Lab Sample ID: 320-55843-3 Matrix: Air

Date Collected: 10/29/19 23:05

Date Received: 10/31/19 07:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	PUF to Air					334981	10/31/19 10:06	CCL	TAL SAC
Total/NA	Prep	TO-10			2010 L	10 mL	334982	10/31/19 10:07	CCL	TAL SAC
Total/NA	Analysis	TO-10A		1			335864	11/04/19 16:39	AP1	TAL SAC

Client Sample ID: -04A BLANK #1

Date Collected: 10/29/19 00:00

Date Received: 10/31/19 07:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Pre Prep	PUF to Air					334981	10/31/19 10:20	CCL	TAL SAC
Total/NA	Prep	TO-10			1000 L	10 mL	334982	10/31/19 10:21	CCL	TAL SAC
Total/NA	Analysis	TO-10A		1			335864	11/04/19 16:59	AP1	TAL SAC

Client Sample ID: -05A BLANK #2 Lab Sample ID: 320-55843-5

Date Collected: 10/29/19 00:00

Date Received: 10/31/19 07:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pre Prep	PUF to Air					334981	10/31/19 10:20	CCL	TAL SAC
Total/NA	Prep	TO-10			1000 L	10 mL	334982	10/31/19 10:21	CCL	TAL SAC
Total/NA	Analysis	TO-10A		1			335864	11/04/19 17:20	AP1	TAL SAC

#### Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Eurofins TestAmerica, Sacramento

Lab Sample ID: 320-55843-4

Matrix: Air

Matrix: Air

# **Accreditation/Certification Summary**

Client: PBS Engineering and Environmental Project/Site: Sky Valley Ballast Survey

Job ID: 320-55843-1

# Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Alaska (UST)	State	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	Dept. of Energy	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	01-20-21
Arizona	State	AZ0708	08-11-20
Arkansas DEQ	State	19-042-0	06-17-20
California	State	2897	01-31-20
Colorado	State	CA0004	08-31-20
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-20
Georgia	State	4040	01-29-20
Hawaii	State	<cert no.=""></cert>	01-29-20
Illinois	NELAP	200060	03-17-20
Louisiana	NELAP	01944	06-30-20
Maine	State	2018009	04-14-20
Michigan	State	9947	01-29-20
Michigan	State Program	9947	01-31-20
Nevada	State	CA000442020-1	07-31-20
New Hampshire	NELAP	2997	04-18-20
New Jersey	NELAP	CA005	06-30-20
New York	NELAP	11666	04-01-20
Oregon	NELAP	4040	01-29-20
Pennsylvania	NELAP	68-01272	03-31-20
Texas	NELAP	T104704399-19-13	05-31-20
US Fish & Wildlife	US Federal Programs	58448	07-31-20
USDA	US Federal Programs	P330-18-00239	07-31-21
USEPA UCMR	Federal	CA00044	12-31-20
Utah	NELAP	CA000442019-01	02-29-20
Vermont	State	VT-4040	04-16-20
Virginia	NELAP	460278	03-14-20
Washington	State	C581	05-05-20
West Virginia (DW)	State	9930C	12-31-19
Wyoming	State Program	8TMS-L	01-28-19 *

Eurofins TestAmerica, Sacramento

<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.

# **Method Summary**

Client: PBS Engineering and Environmental Project/Site: Sky Valley Ballast Survey

Job ID: 320-55843-1

Method	Method Description	Protocol	Laboratory
TO-10A	PCBs in Ambient Air	EPA	TAL SAC
PUF to Air	PUF to Air Conversion	None	TAL SAC
TO-10	Extraction of Pesticide/PCBs in (Ambient Air)	EPA	TAL SAC

#### **Protocol References:**

EPA = US Environmental Protection Agency

None = None

#### Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# **Sample Summary**

Client: PBS Engineering and Environmental Project/Site: Sky Valley Ballast Survey

Job ID: 320-55843-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-55843-1	-01A	Air	10/29/19 23:02	10/31/19 07:26	
320-55843-2	-02A	Air	10/29/19 23:04	10/31/19 07:26	
320-55843-3	-03A	Air	10/29/19 23:05	10/31/19 07:26	
320-55843-4	-04A BLANK #1	Air	10/29/19 00:00	10/31/19 07:26	
320-55843-5	-05A BLANK #2	Air	10/29/19 00:00	10/31/19 07:26	

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13

# Sorbent Samples Chain of Custody Record

TestAmerica Sacramento

HE LEADER IN ENVIRONMENTAL TRETIME TestAmerica Laboratoriea, Inc. 3 (See below for Add'l Ifems) Sample Specific Notes: Š Ž Ž \$ \$ \$ Storedo or Lab Use Only: Walk-in Client. .ab Sampling: Job / SDG No. 9 2 2 2 2 2 2 Chart (Please specify is notes section); 320-55843 Chain of Custody × IIA 100bn TestAmerica Laboratories, inc. assumes no lactify with respect to the culturion and shipmant of these samples adit ajdures SAS tinnoas saigu u Aipads eseaigi jaiju S Samples Collected By: Tusting Day 6-0 W-01 इक्षेत्रप × × > <AOL-OI SHA9-MIS ACT-O TO-13A SVOCS Samples Received by: Sample Volume (Ilters) ~\$ 20,0 Received by: Received by: 200 2,010 Condition Project Manager: Grego Midda Legh No. of Containers Email: 9 Tagg. Midd augh Opporage Ambient Ambient TA Contact: Lee Ann Heathcote (916) 374-4333 Temperature (Celsius) Temperature (Cetaius) 23.62 Analysis Turnaround Time 9 10:52 72:9/ 10:30 | 73:0X AS 4 P Time Stop O.A.S.T. アドア 2 Date / Time: Opened by Standard (Specific) Time Start Interior n. 13/12/ Rush (Specify); Interior 19/2/9/ Site Contact: Sample Dafo(s) Start Start Stop Stop Address: 214 6 63/c 51 Stc 300 Objection Sea Perio WA 90/102 Priore: 206 - 255 - 4/659 <u>...</u> Special Instructiona/QC Requirements & Commants COSC Name SKY Valley Sallast Swa Company Name 70% 50% + 50% となる × Shipper Name Sample Identification Stell Constitution: Montale 1648 P.O. # 14 1-3 73, 000 N. S. S. S. West Sacramento, CA 90605 (916) 373-5800 Resett Client Contact Information Samples Shipped By Samples Relinquished by 41373.800 380 Riverside Parkway L 4 kelinquished by: くいっし ab Use Only S J O Ö 1 W # O'd Ō 11/6/2019 Page 15 of 16

Form No. CA-C-WI-803, dated 10/25/2017

\* to analysis indicated.

Client: PBS Engineering and Environmental

Sample collection date/times are provided.

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Appropriate sample containers are used.

Sample bottles are completely filled.

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Sample Preservation Verified.

Residual Chlorine Checked.

MS/MSDs

<6mm (1/4").

List Source: Eurofins TestAmerica, Sacramento

Job Number: 320-55843-1

Login Number: 55843 List Number: 1

Creator: Thompson, Sarah W

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td>Comment</td>	True	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	gel packs
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	

True

True

True

N/A

True

True

True

True

N/A